

Check Homework answers:

page 5

1) (a) students

(b) Sex (C)	Homeroom (C)	Grade (C)
Calculator (C)	Test (Q)	

2) (a) Hotels

(b) Pool (C)	Exercise room (C)	Internet (Q)
Restaurants (Q)	Room service (C)	Distance (Q)
Room rate (Q)		

(c) Which hotel is best?

Page 9

7) (a) Population = ALL pieces of hardwood in the batch
Sample = five pieces chosen from each batch

(b) Pop = ALL auto insurance claims that month
Sample = the sample selected that month

8) (a) Pop = ALL small businesses
Sample = 150 restaurants listed in the phone book
of a large city

(b) Pop = ALL local television viewers
Sample = the people who called in their views

vol. resp.

Get out notes from yesterday...

Observational Study = Observes individuals and measures variables, but does not try to influence the responses. Does not change the individuals at all.

ex: Survey

* Sample Survey = Observational study that uses a sample

Experiment = Deliberately imposes a treatment on the individuals in order to observe the response. Purpose: to see if the treatment causes a change in the response

Open books-

Complete p. 14 #13, 14, 18

Page 14

13) Experiment. The treatments are the new and old muffins that the people are asked to eat.

14) (a) Observational Study. There is no treatment. They did not make people use cell phones or have brain cancer.

(b) Individuals = the people with brain cancer & the people matched with them

Variables = Cancer, cell phone use

18) (a) experiment. They gave each person the two treatments

(b) helps determine a change in whitening on each person. Not everyone starts from the same whitening level.

Using your books and answer the questions
about a CENSUS

Census = An observational study that attempts to contact the entire population, instead of using a sample.

Advantages: - all data

Disadvantages: - time
- \$
- difficult

US Census
- mail homeless

Quia Survey variables: Categorical or Quantitative?

- * Gender
- * Eye Color
- * Hair color
- * Grade (10, 11, 12)
- * Age (15, 16, 17, ...)
- * Type of car your mom drives
- * Dominant hand
- * Death Penalty (For/Against)
- * Height
- * Zip Code

Quia Survey variables continued...

- * Favorite Color
- * First 3 digits of cell phone number (not area code)
- * Sum of all 7 digits in cell phone number (not counting area code)
- * # of writing utensils in book bag right now
- * # of years owned cell phone
- * # of siblings
- * # of hours spent doing HW each day
- * # of hours sleeping
- * # of CB South sports played
- * Favorite subject

CW 1.1: Complete Data Exploration 1.1

15 minutes

- * page 11-12
- * Find a partner to work with
- * Write answers on separate paper
- * Be neat and organized with your answers- label each question
- * Be complete with your answers!
- * Turn in one sheet for each pair when finished

CW 1.1B:

page 17-18 #19 -- 23

- * Complete on separate paper
- * *Work alone*
- * Again, be organized with your answers
- * Turn in when done

25 minutes

Homework:

- * Complete the worksheet given, using the class data (will be posted by 3pm on the website)
- * Print 2.1 notes (on website) for tomorrow if you want them. We will use them for a few days.

Pre-Assessment

10 mins

1)CREATE A BAR CHART:

Party affiliations in a sample of Bucks County residents:

D	R	D	D	R
R	R	R	I	R
R	D	I	I	R
R	R	D	R	D

2) CREATE A PIE CHART:

Ratings from a sample of 2007 movie releases:

G	G	PG	G	PG-13
R	G	R	PG-13	R
PG-13	PG-13	R	G	PG
PG	PG	PG-13	G	G

3) CREATE A STEM PLOT:

A small sample of pitch speeds from an MLB pitcher.

95	101	87	89	92
93	94	92	98	95
91	90	88	79	90

